

SWALLOW.

A NEW ALMANACK

for the Year of our
LORD GOD

1686.

Being the second after Bissextile or Leap-
year, and from the Worlds Creation,
5689.

Calculated properly for the famous
University and Town of Cambridge, where
the Pole Arctick is elevated 52 deg.
12 min. above the Horizon.

And may serve indifferently for any other
place of this Kingdom.

Omnia salae metis tempus.

CAMBRIDGE,
Printed by John Hayes, Printer to
the University, 1686.

The Common Notes and Moveable Feasts for this year, 1686. in both Accounts.

Julian of
Englsh.

ix.

Gregorian or
Forreign.

	15	The Golden Number	15	
	C	The Dominical Letters	5	
	15	The Epact	5	
	15	The Cycle of the Sun	15	
Feb.	14	Shrove-sunday	Febr.	24
April	4	Easter-day	April	14
May	13	Ascension-day	May	23
May	23	Whit-tuesday	June	2
Novemb.	28	Michael-mass	Decemb.	1

The Anatomy of Man's body.



- ♈ Aries Head and Face ♎ Libra Reins and Loins
 ♉ Taurus Neck & Throat ♏ Scorpio Secret members.
 ♊ Gemini Arms and Shoul. ♐ Sagittarius the Thighs
 ♋ Cancer Breast & Stom. ♑ Capricornus the Knees
 ♌ Leo Heart and Back ♒ Aquarius the Legs
 ♍ Virgo Bowels and Belly ♓ Pisces the Feet.

The

A Table of the Terms with their Returns.

Hilary Term begins January 23. and ends February 17, and hath 4 returns, viz.	{	Octab. Hilar. January	20
		Quind. Hilar. Jan	27
		Craft. Purif. February	3
		Octab. Purif. February	9
Easter Term begins April 21, and ends May 17, and hath 5 returns.	{	Quind. Pasch. April	19
		Tres Pasch. April	26
		Mens. Pasch. May	3
		Quinq. Pasch. May	10
		Craft Ascen. May	14
Trinity Term begins June 4, and ends June 23, and hath 4 returns.	{	Craft Trin. May	31
		Octab. Trin. June	7
		Quind. Trin. June	14
		Tres Trin. June	21
Michael. Term be- gins October 23, and ends November 29, and hath 6 returns.	{	Tres Mich. Octob.	20
		Mens Mich Octob.	27
		Craft. Anim. November	3
		Craft. Mart. November	12
		Octab. Mart. November	18
		Quind. Mart. November	25

Note that the bright Planet *Venus* will be our evening Star, from the beginning of the Year, to the 5 day of *April*, and then making her Conjunction with the Sun, She becomes Oriental and our glorious morning Star to the end of the Year.

Note that the Exchequer openeth 8 days before any Term begins, except the Term of Trinity, in which it openeth but 4 days before.

January hath xxxi days.

Last quarter the 7 day, 12 min. past 1 after noon.
 New moon the 14 day, at 2 in the morning.
 First quarter the 21 day, 50 min. past 8 in the morn.
 Full moon the 29 day, 12 min. past 10 before noon.

1	a	Circumcision	21	52	Leo	11	
2	b	Octab. Steph.	22	53		23	
3	c	2 after Christ.	23	54	Virgo	5	
4	d	Octab. Ianoc.	24	55		18	
5	e	Simon	25	56	Libra	1	Cold, cloudy, and frosty weather with snow.
6	f	Epiphany	26	57		14	
7	g	Julian	27	59		27	
8	a	Erhardus	28	0	Scorp.	11	
9	b	Marcelline	0 ^{xxx} 2	2		25	
10	c	1 aft. Epiph.	1	3	Sagit.	9	
11	d	Pyginnus	2	4		24	
12	e	Baptist	3	5	Capr.	9	Fine mode- rate weather and not very cold conside- ring the sea- son.
13	f	Hilary Bish.	4	6		24	
14	g	Felix	5	7	Aquar.	9	
15	a	Maurice B.	6	8		24	
16	b	Marcellus	7	9	Pisces	8	
17	c	2 aft. Epiph.	8	10		22	
18	d	Orticia	9	11	Aries	6	
19	e	Diontion	10	12		19	
20	f	Octab. Hilar.	11	13	Taur.	1	
21	g	Agnes	12	14		14	
22	a	Vincent	13	15		26	Cold rain or snow now, but the month ends indiffe- rent mildly.
23	b	Term begins	14	16	Gem.	8	
24	c	3 aft. Epiph.	15	17		19	
25	d	Conv. S. Paul	16	18	Canc.	1	
26	e	Polycarpus	17	18		13	
27	f	Quind. Hilar.	18	19		25	
28	g	Valerius	19	20	Leo	7	
29	a	Carol. mag.	20	21		20	
30	b	K. Char. I. M	21	21	Virgo	2	
31	c	Septuagesima	22	22		15	

February hath xxviii days.

Last quarter the 5 day, 58 min. past 7 at night.

New moon the 12 day, 27 min. past 1 after noon.

First quarter the 21 day, 38 min. past 3 in the morn.

Full moon the 28 day, 21 min. past 4 in the morning.

LUNAR	SUN	Festival days with terms.	☉ place		Moons place.	
			d.	m.		
1	D	Budget fast	23	23	Virgo	28
2	E	Purif. V. Mary	24	23	Libra	11
3	F	Craft. Purif.	25	24		24
4	G	Gilbert	26	24	Scorp.	8
5	A	Agatha	27	25		21
6	H	Dorothy	28	26	Sagit.	5
7	C	Seraphina	29	26		19
8	D	Salome	0X	26	Capr.	4
9	E	Octab. Purif.	1	27		18
10	F	Scholastica	2	27	Aquar.	3
11	G	Euphrosina	3	28		18
12	A	Term ends	4	28	Pisces	2
13	H	Wolstan	5	28		16
14	C	Shrove Sund.	6	29	Aries	0
15	D	Faustine	7	29		14
16	E	Shrovetuesd.	8	29		27
17	F	Ash wednesd.	9	29	Taur.	10
18	G	Concordia	10	29		22
19	A	Sim. Ep.	11	29	Gem.	4
20	H	Appollon	12	30		16
21	C	1 Sun. in Lent.	13	30		27
22	D	Cathedr. Per.	14	30	Canc.	9
23	E	Shrens fast	15	30		21
24	F	S. Matthias	16	30	Leo	3
25	G	S. Paul	17	30		16
26	A	Blas	18	29		28
27	H	Pestor	19	29	Virgo	11
28	C	2 sun. in Lent	20	29		24

A cold and
sharp air
begins the
month but
holds not
long.

Fine pleasant
weather with
brisk winds.

High winds
with cold rain
or snow to-
ward the end.

March hath xxxi days.

Last quarter the 7 day, 40 min. past 6 in the morn.
 New moon the 14 day, 3 min. past 2 in the morn.
 First quarter the 21 day, 2 min. past 11 at night.
 Full moon the 29 day, 57 min. past 6 at night.

1	d	David Bish.	21	29	Libra	7	
2	e	Thad Bish.	22	29		21	Very windy
3	f	Auctus	23	28	Scorp.	4	& blustering
4	g	Abstan	24	28		18	weather at
5	a	Celestinus	25	28	Sagit.	2	the beginning
6	b	Frederick	26	27		16	with rain or
7	c	3 Sun. in Lent	27	27	Capr.	0	snow.
8	d	Teorian	28	26		14	
9	e	Prudent.	29	26		28	
10	f	Sun in Aries	0	25	Aquar.	13	High winds
11	g	Canibert	1	25		27	continuc.
12	a	Gregory	2	24	Pisc.	11	
13	b	Ernestus	3	23		25	
14	c	Midlent Sund.	4	23	Aries	9	
15	d	Longinus	5	22		22	
16	e	Boniface B.	6	21	Taur.	5	
17	f	Gertrude	7	20		17	
18	g	Gabriel	8	19	Gem.	0	
19	a	Joseph	9	18		12	Turbulent
20	b	Rupert	10	18		24	weather al-
21	c	5 Sun. in Lent	11	17	Canc.	5	most to the
22	d	Paulinus	12	16		17	months end,
23	e	Theodore	13	15		29	burn for very
24	f	Quintine fast	14	13	Leo	21	hold for the
25	g	Lady day	15	12		14	season.
26	a	Cassius	16	11	Virgo	6	
27	b	Archibald	17	10		19	
28	c	Palm Sunday	18	9	Libr.	2	
29	d	Eustachius	19	8		16	
30	e	Guido	20	6	Scorp.	0	
31	f	Balbina	21	5		14	

April hath xxx days.

Last quarter the 5 day, 8 min. past noon.
 New moon the 12 day, 23 min. past 4 afternoon.
 First quarter the 20 day, 14 min. past 5 afternoon.
 Full moon the 28 day, 2 min. past 3 in the morning.

1	B	Conv. 22	3	Scorp.	28	
2	a	Good friday	23	2	Sagit.	12 Windy with
3	b	Christian fa	24	1	29	storms of hail.
4	c	Easter day	24	59	Capr.	11
5	d	Vincent	25	58	25	Five moist
6	e	Sixtus Bish.	26	56	Aquar.	9 seasonable
7	f	Telestine	27	55	23	weather.
8	g	Dionysius	28	53	Pisces	7
9	a	Albinus	29	52	20	
10	b	Ezechiel	30	50	Aries.	14
11	c	Low Sunday	1	48	17	
12	d	Julius	2	47	Taur.	0
13	e	Jonon	3	45	13	Temperate
14	f	Olyffe	4	43	25	as to heat, but
15	g	Olympia	5	41	Gem.	8 tempestuous.
16	a	Adoze	6	39	19	
17	b	Anicetus	7	38	Canc.	2
18	c	2 after Easter	8	36	13	
19	d	Quind. Pasc.	9	34	25	
20	e	Gregory	10	32	Leo	70
21	f	Term begins	11	30	19	
22	g	Emmanuel	12	28	Virgo	1
23	a	S. George	13	26	14	
24	b	Albertus	14	24	27	Windy with
25	c	S. Mark Evan	15	21	Libra	11 thunder.
26	d	Tres Pasch.	16	19	24	
27	e	Anastasiu	17	17	Scorp.	9
28	f	Vitalis	18	15	23	
29	g	Styella	19	13	Sagit.	8
30	a	Julius	20	10	22	

May hath xxxi days.

Last quarter the 4 day, 42 min. past 5 after noon.
 New moon the 12 day, 10 min. past 4 in the morn.
 First quarter the 10 day, 19 min. past 9 in the morn.
 Full moon the 27 day, 1 min. past 11 before noon.

1	b Phil. & James	21	8	Capr.	7	
2	c Sun. aft. EaR.	22	6		21	
3	d Menl. Pasch.	23	3	Aquar.	6	Cold and
4	e Embrose	24	1		20	cloudy.
5	f Martian	24	59	Pisces	3	
6	g Joh. port. L.	25	56		17	
7	a Joh. of Bev.	26	54	Aries	0	
8	b Appar. Mo.	27	51		13	
9	c Rogation Sun.	28	49		26	
10	d Quinq. Pasch.	29	II 47	Taur.	9	About this
11	e Anthony	0	4		21	time rain &
12	f Acheley	1	41	Gem.	4	windy.
13	g Ascension day	2	39		16	
14	a Fortune	3	36		28	
15	b Sophia	4	34	Canc.	10	
16	c Sun. aft. ascen.	5	31		22	
17	d Term ends	6	29	Leo	3	
18	e Bernardine	7	26		15	Fine dry
19	f Sarah	8	23		27	seasonable
20	g Bernard	9	20	Virgo	10	weather and
21	a Julian. Virg.	10	18		22	moderate as
22	b Helen Q.	11	15	Libra	5	to heat.
23	c Whitsunday	12	12		19	
24	d Esther	13	10	Scorp.	2	
25	e Aug. of Eng.	14	7		17	
26	f Ember week	15	4	Sagit.	1	
27	g Beda	16	1		16	
28	a Monica	16	58	Capr.	1	
29	b K. Ch. 2. Nat.	17	56		16	
30	c Trinity Sund.	18	53	Aquar.	1	
31	d Craft. Trin.	19	50		16	

June hath xxx days.

Last quarter the 3 day, 51 min. past midnight.
 New moon the 10 day, 17 min. past 9 at night.
 First quarter the 18 day, 43 min. past 11 at night.
 Full moon the 25 day, 56 min. past 5 afternoon.

1	e	Plucomebe	20	47	Pices	0	
2	f	Marcellus	21	44		14	
3	g	Corpus Christi	22	41		27	
4	a	Term begins	23	38	Aries	10	Temperate
5	b	Boniface	24	36		23	with storms
6	c	1 sun. af. Trin.	25	33	Taur.	6	of hail and
7	d	Octab. Trin.	26	30		18	thunder.
8	e	William	27	27	Gem.	0	
9	f	Tr. Edmund	28	2		13	
10	g	Margaret	29	21		25	Fine clear
11	a	S. Barnabas	30	18	Canc.	6	weather with
12	b	Islandina	1	15		18	wholesom
13	c	2 sun. af. Trin.	2	12	Leo	0	gales of
14	d	Quind. Trin.	3	9		12	wind.
15	e	Modest.	4	6		24	
16	f	Tr. Richard	5	3	Virg.	6	
17	g	Botolph	6	0		18	
18	a	Gerhagus	6	57	Libra	1	
19	b	Broth	7	55		14	
20	c	3 after Trin.	8	52		27	Expect now
21	d	Cres Trin.	9	49	Scorp.	11	and then
22	e	Alban	10	46		25	hail showers
23	f	Term ends fast	11	43	Sagit.	10	with thunder,
24	g	S. John Bapt.	12	40		24	
25	a	Elogius	13	37	Capr.	10	
26	b	Jeremias	14	34		25	
27	c	4 after Trin.	15	31	Aquar.	10	
28	d	Leo Bish. fast	16	28		25	
29	e	S. Peter Apo.	17	25	Pices	17	
30	f	Com. S. Paul	18	22		24	

July hath xxxi days,

Last quarter the 2 day, 6 min. past 11 beforenoon.

New moon the 10 day, at noon.

First quarter the 18 day, 58 min. past 9 beforenoon.

Full moon the 25 day, 41 min. past 12 in the morn.

1	B	Theobald	19	19	Aries	7	
2	a	Visit. Mary	20	17		20	
3	b	Cornelius	21	14	Taur.	3	
4	C	5 after Trin.	22	11		15	
5	d	Anselme	23	8		27	Hot windy
6	e	Oct. Peter	24	5	Gem.	9	and wet
7	f	Trans. Beck.	25	2		21	weather.
8	B	Demetrius	25	59	Canc.	3	
9	a	Cyrillus	26	57		15	
10	b	7 Brethren	27	54		27	
11	C	6 after Trin.	28	51	Leo	9	Storms of hail
12	d	Henricus	29	48		21	but not very
13	e	Philbace	0	45	Virgo	3	hot.
14	f	Bonavent.	1	43		15	
15	B	Swithin	2	40		28	
16	a	Hilarine	3	37	Libra	10	
17	b	Blexing	4	34		23	
18	C	7 after Trin.	5	31	Scorp.	6	Very hot
19	d	Dog days beg.	6	29		20	now with
20	e	Margaret	7	26	Sagit.	4	thunder.
21	f	Daniel	8	24		18	
22	B	Mary Mag.	9	21	Capr.	3	
23	a	Apolline B.	10	19		18	
24	b	Christina fast	11	16	Aquar.	3	
25	C	S. James Apo.	12	13		19	
26	d	Anna	13	11	Pisces	4	Windy with
27	e	Seb. Sleep.	14	8		18	thunder
28	f	Santhaleon	15	6	Aries	3	which may
29	B	Beatrix	16	3		16	bring rain.
30	a	Abdon	17	1		29	
31	b	German	17	58	Taur.	12	

August hath xxxi days.

Last quarter the 1 day, 13 min. past 2 in the morn.

New moon the 9 day, 8 min. past 3 in the morn.

First quarter the 16 day, 16 min. past 4 afternoon.

Full moon the 23 day, 51 min. past 8 in the morn.

Last quarter the 30 day, 3 min. past 4 afternoon.

1	C	9 after Trin.	18	56	Taur.	24	
2	D	Stephanus	19	54	Gem.	6	
3	E	Invent. Step.	20	51		18	
4	F	Dominick	21	49	Canc.	0	A fine tempe-
5	G	Fest. Albis	22	47		12	rate & serene
6	A	Trans. Christi	23	44		24	air.
7	H	Donatus	24	42	Leo	6	
8	C	10 after Trin.	25	40		18	
9	D	Romanus	26	37	Virg.	0	
10	E	S. Laurence	27	35		12	
11	F	Gilbert B.C.	28	33		25	
12	G	Clare Virg.	29	31	Libra	7	High winds
13	A	Sun in Virgo	om 29			20	with rain,
14	H	Casibius	1	27	Scorp.	3	and some-
15	C	11 after Trin.	2	25		16	thing hor.
16	D	Roch	3	23	Sagit.	0	
17	E	Oct. Laur.	4	21		13	
18	F	Helena Emp.	5	19		23	
19	G	Sebaldu	6	17	Capr.	12	
20	A	Bernard	7	15		27	
21	H	Ethenicus	8	13	Aqua.	12	Very hasty
22	C	12 after Trin.	9	11		27	showers
23	D	Jacques fast	10	9	Pisces	12	toward the
24	E	S. Bartholom.	11	8		26	end.
25	F	Leois King	12	6	Aries	11	
26	G	Frencis	13	4		24	
27	A	Dog days end	14	3	Taur.	7	
28	H	Augustine	15	1		20	
29	C	13 after Trin.	15	59	Gem.	3	
30	D	Felix	16	58		15	
31	E	Euthurge	17	56		27	

September hath xxx days

New moon the 7 day, 59 min. past 5 afternoon.
 First quarter the 15 day, 16 min. past 1 in the morn.
 Full moon the 21 day, 47 min. past 6 at night.
 Last quarter the 29 day, at 10 in the morning.

1	f	Giles Abbot	18	55	Canc.	9	
2	b	Seraphia	19	53		20	
3	a	Euphem.	20	52	Leo	2	
4	b	Theodosius	21	50		14	Good season-
5	c	14 aft. Trin.	22	49		27	able weather
6	d	Magus	23	48	Virgo	9	begins the
7	e	Regina	24	46		21	month.
8	f	Nat. of Mary	25	45	Libra	4	
9	g	Gorgon	26	44		17	
10	a	Docthenes	27	43	Scorp.	0	
11	b	Theobald	28	42		13	
12	c	15 after Trin.	29	40		27	
13	d	Amatus	0	39	Sagit.	10	
14	e	Holy Cross	1	38		24	Very wet
15	f	Ember week	2	37	Capr.	8	weather &
16	g	Euphemus	3	36		22	cold.
17	a	Lambert	4	35	Aquar.	7	
18	b	Fereolus	5	34		21	
19	c	16 after Trin.	6	34	Pisces	6	
20	d	Fausta	7	33		20	
21	e	S. Matthew	8	32	Aries	4	Cloudy with
22	f	Maurice	9	31		19	high winds.
23	g	Etoria	10	30	Taur.	2	
24	a	Rupert	11	30		16	
25	b	Eltophas	12	29		28	
26	c	17 after Trin.	13	29	Gem.	11	
27	d	Judith	14	28		23	
28	e	Creupere	15	27	Canc.	5	
29	f	S. Michael	16	27		17	
30	g	Jerome	17	26		29	

October hath xxxi days.

New moon the 7 day, 2 min. past 8 in the mora.
 First quarter the 14 day, 19 min. past 7 in the morn.
 Full moon the 21 day, 23 min. past 7 in the morn.
 Last quarter the 29 day, 18 min. past 6 in the morn.

1	a	Remigius	18	26	Leo	10	
2	b	Leodegar	19	26		22	
3	c	18 after Trin.	20	25	Virgo	5	
4	d	Francis	21	25		17	A wet season
5	e	Apollinart	22	25	Libra	0	now expect
6	f	Faith	23	24		13	and tempe-
7	g	Spes	24	24		26	stuous.
8	a	Delagis	25	24	Scorp.	9	
9	b	Dionysius	26	24		23	
10	c	19 after Trin.	27	24	Sagit.	7	
11	d	Burchard	28	24		21	Cold and
12	e	Wilsfride V.	29	24	Capr.	5	cloudy.
13	f	Edward	c m	24		19	
14	g	K. Jam. 2. Born	1	24	Aquar.	3	
15	a	Hedwig.	2	24		17	
16	b	Gallus	3	24	Pisces	1	
17	c	20 after Trin.	4	24		16	
18	d	S. Luke Evan.	5	24	Aries	0	Violent
19	e	Wilsfride	6	24		13	showers, but
20	f	Tres Mich.	7	25		27	not very cold
21	g	Ursula	8	25	Taur.	10	considering
22	a	Corbula	9	25		23	the season.
23	b	Term begins	10	25	Gem.	6	
24	c	21 after Trin.	11	26		19	
25	d	Crispine	12	26	Canc.	1	
26	e	Amandus	13	27		13	
27	f	Menl. mich. fa.	14	27		21	
28	g	Sim. & Jude	15	28	Leo	7	
29	a	Parcellus	16	28		18	
30	b	German	17	29	Virgo	0	
31	c	22 after Trin.	18	29		12	

November hath xxx day:

New moon the 5 day, 17 min. past 9 at night.
 First quarter the 12 day, 14 min. past 2 afternoon.
 Full moon the 19 day, 25 min. past 11 at night.
 Last quarter the 28 day, 31 min. past 2 in the morn.

1	D	All Saints	19	30	Virgo	25	
2	E	All Souls	20	30	Libra	8	
3	F	Craft Anim.	21	31		21	
4	G	Spodellius	22	32	Scorp.	4	
5	A	Powder Plot	23	32		18	Windy wea-
6	B	Leonard	24	33	Sagit.	2	ther but dry
7	C	23 after Trin.	25	34		16	
8	D	Claudian	26	35	Capr.	1	
9	E	Theodosius	27	35		15	
10	F	Triphon	28	36	Aquar.	0	
11	G	Spartine	29	37		14	
12	A	Craft. Mart.	0	38		28	Cold with
13	B	Eugenia	1	39	Pisces	12	snw.
14	C	24 after Trin	2	40		26	
15	D	Leopold	3	41	Aries	10	
16	E	Edmond	4	42		23	
17	F	Hugo	5	43	Taur.	6	
18	G	Octab. Mart	6	44		19	
19	A	Elizabeth	7	45	Gem.	2	
20	B	Edmund K.	8	46		14	
21	C	25 after Trin.	9	47		27	Cloudy dark
22	D	Stich Vi g.	10	48	Canc.	9	weather with
23	E	Clement	11	49		21	cold frosts
24	F	Chrylogon.	12	50	Leo	5	and snw.
25	G	Quind. Mart.	13	51		15	
26	A	Conrade	14	52		29	
27	B	Agicola	15	53	Vi go	8	
28	C	Advent Sund.	16	54		21	
29	D	Term ends	17	56	Libra	3	
30	E	S. Andrew	18	57		16	

December hath xxxi days.

New moon the 5 day, 5 min. past 9 in the morn.
 First quarter the 12 day, 6 min. past 1 in the morn.
 Full moon the 19 day, 17 min. past 5 at night.
 Last quarter the 27 day, 22 min. past 9 at night.

1	f	Longinus	19	58	Libra	29	Fine tempe- rate weather for the season.
2	b	Candidus	20	59	Scorp.	12	
3	a	Cassian	22	0		25	
4	b	Barbara	23	1	Sagit.	10	
5	c	2 sun. in Adv.	24	3		25	
6	d	Nicholas	25	4	Capr.	10	About this time cold frosts with snow may be expected.
7	e	Agathon	26	5		25	
8	f	Concep. Mary	27	7	Aquar.	10	
9	g	Joachim	28	8		25	
10	a	Wiltiares	29	9	Pisces	9	
11	b	Damas	0	10		23	
12	c	3 sun. in Adv.	1	12	Aries	7	
13	d	Lucia Virg.	2	13		20	
14	e	Orthie Virg.	3	14	Taur.	3	
15	f	Emper week	4	16		16	
16	g	O Sipientia	5	17		28	Dark gloomy and cold weather to the end of the month.
17	a	Gratian	6	18	Gem.	11	
18	b	Marcellus	7	19		23	
19	c	4 sun. in Adv.	8	21	Canc.	5	
20	d	Amon fast	9	22		17	
21	e	S. Thomas	10	23		29	
22	f	Theodore	11	25	Leo	11	
23	g	Mina Virg.	12	26		23	
24	a	Ad. & Eustach	13	27	Virgo	5	
25	b	Christ's Kirch	14	28		17	
26	c	S. Stephen	15	30		29	
27	d	S. John Evan.	16	31	Libra	11	
28	e	H. Innocent	17	32		24	
29	f	Crispian	18	34	Scorp.	7	
30	g	David	19	35		20	
31	a	Sylvester	20	36	Sagit.	4	

A Regal Table in a more exact manner.

The Year, Month, and Day, (accounting the Year to be- gin Jan. 1.) whereon every K. and Q. of Eng. since the Conq. began their reign.			The number of Years, Moneths, & Days, that eve- ry K. & Q. reign. 28 da. to a mon.			The num. of y. expired in this y. since they began to reign: as also since they ended.		
K. W. Conq.	1066	Octob. 14	20	y	11	m	22	d 620
W. Rufus	1087	Sept. 9	12	y	11	m	18	d 599
Henry	1100	August 13	35	y	4	m	11	d 586
Stephen	1135	Decem. 2	18	y	11	m	18	d 551
Henry	1154	Octob. 25	34	y	9	m	2	d 532
Richard	1189	July 6	9	y	9	m	0	d 457
John	1199	April 6	17	y	7	m	0	d 487
Henry	1216	Octob. 19	56	y	1	m	0	d 470
Edward	1272	Nov. 16	34	y	8	m	6	d 414
Edward	1307	July 7	19	y	7	m	5	d 379
Edward	1327	Jan. 25	50	y	5	m	7	d 359
Richard	1377	June 21	22	y	3	m	14	d 309
Henry	1399	Sept. 29	13	y	6	m	3	d 287
Henry	1413	Mar. 20	9	y	5	m	24	d 273
Henry	1422	Aug. 31	38	y	6	m	16	d 264
Edward	1461	March 4	22	y	1	m	8	d 225
Edward	1483	April 9	0	y	2	m	18	d 203
Richard	1483	June 22	2	y	2	m	5	d 203
Henry	1485	Aug. 22	23	y	10	m	24	d 201
Henry	1509	April 23	37	y	10	m	2	d 177
Edward	1547	Jan. 28	6	y	5	m	19	d 159
Q. Mary	1553	July 6	5	y	4	m	22	d 133
Q. Elizab.	1558	Nov. 17	44	y	4	m	15	d 128
James	1603	Mar. 14	22	y	0	m	3	d 83
Charles	1625	Mar. 27	22	y	10	m	3	d 61
Charles	1645	Jan. 30	36	y	0	m	7	d 37
James	1686	Febr. 6	Long live the King:			1	K. Charles	1

The use of the Table in Example.

King Henry 8 began his Reign in the year of Christ 1509. April 22. He Reigned 37 years, 10 months, and 2 days. It is since he began his Reign 178 years comp'd at the 22 of April this year 1686. Now to know the time since the end of his Reign, before his name (standing on the right hand, you shall there find 139 years since he died, Jan. 28. And so of the rest.

SWALLOW.

The latter part of this

ALMANACK

for the Year of our

LORD GOD

1686.

Being the 2^d after Bissextile or Leap-year, and from the Conquest of *England* by *William Duke of Normandy* 620 years.

Wherein is contained an account of the Eclipses, the time of the Sun's entrance into the four Cardinal Signs, A most natural and rational account of *Astrology*; and likewise Tables of Weights and Measures, A Table of Timber measure, with Rules for measuring Boards and Timber, and Tables for Purchasing explained, with other profitable and delightfull things.

*Poma dat Autumnus: formosa est messibus Aestas:
Ver praebeat flores: Igne levatur Hyems.*

CAMBRIDGE,

Printed by *John Hayes*, Printer to the
University, 1686.

Swallow 1686.

Of the Eclipse this Year.

IN this year there will be but one Eclipse, and that I will be of the Moon, on the 19th day of November, at 11 at night, it will be a great Eclipse, and will be celebrated in 8 degrees of *Gemini* near the *Bull's Eye*, it begins in the Mid-heaven and ends in the 9th house, *Jupiter* and *Mercury* besiege the Sun, and all oppose the eclipsed Moon, and this from as violent Stars as she her self is near. *Mercury* is Lord of both the Mid-heaven & Ascendant, *Jupiter* is strong and Lord of the Seventh and Fourth in Quartile to the Ascendant: the Countries under *Virgo*, *Pisces*, *Gemini*, and *Sagittarius* will be the most subject to the Effects of this Eclipse.

In this year it is observable that the Comet that appeared in the year 1680. comes to the Quartile of *Mercury*, and to the Quartile of the great Conjunction in 1603. and the Comet that appeared 1682. comes to the Quartile of the Conjunction 1603, and makes a swift passage through *Virgo*.

There is celebrated this year a notable Conjunction of *Saturn* and *Mars*, in 7 degrees of *Libra*, on October the 23 day, and although this Conjunction be of ill influence unto all Places concern'd; yet it will be very delightful to observe the Planets conjoyn'd to rise near *Arcturus* and the *Virgins Spike*, two hours before the Sun rises several mornings together.

The

Swallow 1686.

*The Suns entrance into the four Cardinal Signs
this Year.*

HE enters ♈, *March* the 10th day, 55 min. past 1 in the morning, and then begins our Spring Quarter.
He enters ♋, *June* the 11th day, 46 minutes past 1 in the morning, and then begins our Summer Quarter.
He enters ♏, *September* the 12th day, 8 minutes past 1 at night, and then begins Autumn.
He enters ♐, *December* the 11th day, 4 minutes past 8 in the morning, and then begins Winter.

Although the approach, and absence of the Sun may seem to be the sole cause of Summer and Winter, &c. yet nevertheless there is something to be attributed to the quality of the Signs, or parts of the Heavens that the Sun is in; for it appears to Travellers; that the Sun in the same Signs produceth like effects to them beyond the Equinoctial, that at the same he produceth here to us; the fairest or the foulest weather happening to both at the same instant: for the air is most clear, and without rain under the burning Zone, when the Sun is farthest off, and contrariwise, there is most rain snow and mists, when the Sun is nearest, as in *Peru* the Sun approaching near the Tropick of *Capricorn*, then begins it to rain and snow, and their Rivers swell from *October* to *December*; then after that, the Sun retiring from ♐, whenas his beams reflect directly upon the heads of them at *Peru*, then is the violence of their Waters great; then is the time of rain, snow, &c. which may satisfie the most obstinate, that in all places, the same parts of Heaven keep still the same Qualities.

A most natural and rational account of Astrology.

Astrology (as it is defined by some) is the language or influence of the Stars; by whose motions and various configurations is manifested and foreseen the intenes of Gods Providence in the several mutations that happen in the World in general, and more particularly towards Man.

The subjects of Astrology are the four principle Qualities, (as they are derived and do proceed from the first principles of the universe) *viz.* Heat, Cold, Drought, and Moisture, and all things that are compounded of them.

The use and end of Astrology, is to discover and make manifest the causes of those mutations and accidents that happen in general, as Dearth, Plenty, &c.

The parts of Astrology are chiefly two, *viz.* Theorick and Practick;

The Theorick part (which is more properly called Astronomy) is that which by certain Mathematical Demonstrations and Figures, represents to us the various Motions, Places, Magnitudes, Distances, and Proportions one to another, with all other Phenomena, or appearance of the Stars.

The Practick part, is that which from the knowledge of the aforesaid Motions, Configurations, &c. of the Stars, judgeth of their Effects; and this is that which most properly of it self is called Astrology, or the Influence of the Stars.

Neither can it be void of a third division, and that is Physical, by which is demonstrated their occult Virtues and Natures, and by what means they come to have such various Motions, Distances, Passions, &c. from whence such variety of Effects do proceed, as also hereby is shewed by what means they differ in quality among

among themselves, by which means they produce most forcible Effects upon some particular Objects.

Of the Stars some are termed Fixed, and some Wandering or Planets.

The Fixed Stars are those that are placed in their several Constellations or Asterisms, having equal distances, at all times one from another: their Latitude being always the same, and by the Anticipation of the Equinoxes, seem to have only a slow motion in Longitude, viz. 50 seconds in a Year, which is only 1 degree 32' 20" in 100 Years.

A Constellation is a certain number of Fixed Stars collected into a certain form, either for that the Stars in those places are of the nature of that Creature in the form of which they are placed, or because they only make the form of such a Creature.

Of these Constellations there are three divisions, viz. Zodiacal, Northern, and Southern Constellations.

The most principal are those which are termed Zodiacal, because they are placed upon that great Circle of the Sphere so called.

And these are called Signs because from them is measured in Longitude the places of all the Stars, whether Fixed or Wandering, hence any Star is said to be in such a degree, &c. of such a Sign.

The Northern and Southern Constellations are so termed, because they are placed either North or South of those in the Zodiack, and the further North or South they decline or are placed from this Circle, they are of the less consideration in Astrological Judgements.

And as the difference is in the several Constellations themselves, so is it likewise in the fixed Stars therein placed, and this difference ariseth either in respect of Magnitude or Place.

In respect of Magnitude, the Antients have distinguished them into Six, viz. Stars of the first Magnitude,

second magnitude, third magnitude, fourth magnitude, fifth magnitude, sixth magnitude.

In respect of Place, those that are placed in the Zodiac, and nearest to the middle thereof (which is a Line called, *Via Solis*, and the *Ecliptick*) are of Chiefest Signification, yet not rejecting such as are vertical in position, in respect of time and place.

The Wandering Stars are those commonly termed Planets *ab errando*, from wandering to and fro in their several Spheres in which they were placed at their creation.

They are said to be wandering in respect of their motion, either in Longitude or Latitude; in Longitude sometimes they seem (to us) to move direct or forward, sometimes Retrograde or backward, sometimes Stationary or move not at all, sometimes they are swifter in motion, sometimes slower, according to their distance from the Earth. They are said likewise to wander in respect of Latitude, for sometimes they are more northward of the *Ecliptick*, sometimes more southward, and sometimes they are just in the *Ecliptick*, and so have no Latitude at all.

And as this difference of motion is proper to all the Planets in general, so likewise they vary in proportion one to another, for some of them are of slower motion, some of more swift, according to their distance from their Centers, and the Circumference of their Spheres in which they move.

The Signs are so many Constellations placed upon a great Circle of the Sphere, which for distinction sake do take denomination of such Creatures, as they represent in Form or Nature.

They are in number 12, each containing 30 degrees in Longitude, the whole Circle containing 360 degrees, but in this respect they are to be considered two ways, viz. either in respect of their division upon the *Ecliptick*, or in their proper Constellations.

They

They are reckoned in the Ecliptick from the Vernal Equinoctial or beginning of *Aries*, which is a point to which when a Planet comes he hath an Equal Arch of Day and Night, and when the Sun or Earth comes to that point, Days and Nights are of equal length, but the Constellations as they have a different beginning, so they have a various and unequal division, so that the first Zodiacal Constellation in this Age, begins about the 28 degree of the first Sign, viz. γ , and so they annually make their progression as aforesaid, viz. 1 deg. and 23' in 100 Years.

The 12 Signs are appropriated to the 12 Months of the Year, for that the Sun every Month passeth through one Sign, viz. 30 degrees, and such a Month is called a Solar Month, and thus are they divided also into four parts, answering to the four Quarters of the Year, and the four divisions of Man's Age.

γ , δ , Π , are appropriated to the Spring Quarter, beginning at γ the first Sign, and in this our age attributed to the first Month of the Year viz. *March*, and so the other two Signs to the other two Months of *April* and *May*; as to Man's Age, this first division both of Signs and Quarters is attributed to, and hath consignification with our Youth.

δ , ζ , η , are appropriated to the Summer Quarter, viz. *June*, *July*, and *August*, and in Man's Age to manhood.

η , θ , ι , are appropriated to the Autumnal Quarter, viz. the Months of *September*, *October*, *November*; and to the declining age of Man.

ι , κ , λ , are appropriated to the Winter Quarter, and the Months of *December*, *January*, and *February*, and to the old and last Age of Man.

The Signs are also divided into four Triplicities, answering to the four Qualities, and the several Temperatures, Humours, and Complexions in Man.

♈, ♎, ♐, are of the Fiery Trigon; hot, dry, and Chollerick.

♊, ♋, ♌, are of the Earthy Trigon, cold, dry, and Melancholly.

♉, ♊, ♋, are of the Airy Trigon; hot, moist, and Sanguine.

♍, ♎, ♏, are of the Watry Trigon; cold and moist, and do represent the Phlegmatick Humour or Complexion.

They are again divided into Moveable, Fixed, and Common.

Moveable, are ♈, ♊, ♍, ♋, so called, because they signifie more sudden alteration, and are more manifest in operation: hence it is that the Sun entring into these Signs doth divide the four Seasons of the Year as aforesaid, and suddenly manifest the change of the Air, &c. according to the season; and so in other operations of the other Planets, for which cause these Signs are most properly called the most efficacious and principle Signs or parts of the Circle.

Fixed Signs are ♉, ♎, ♏, ♌, so termed, because what is signified in and by them is more durable and fixed, and the season inclines more to its own property generally, they are less principle as being succedent to the former.

Common Signs are ♈, ♐, ♋, ♏, which are cadent from the Equinoctial and Tropical Signs; and Consequently of least signification: they are termed Common, for that they partake of the nature of the precedent and subsequest Signs, they signifie many relapses and sudden and contrary mutations, &c.

The Signs are also divided into Humane and Bestial.

Humane Signs are ♈, ♊, ♋, ♌, and the first part of ♐, which as they represent Humane Creatures, so have they most signification upon all Humane Actions, and in particular upon Man.

Bestial

Bestial Signs are γ , δ , Ω , \wp , and last part of τ , as having signification on such Creatures as they represent in particular. \odot and \times represent and have most signification on the Waters, and such things as are contained in them, as Fish, Navigable Affairs, &c. α represents Serpents and Creeping Things, Locusts, all manner of treachery and fraud, &c.

The Signs are likewise said to have respect to the several quarters or parts of the World, either in regard of their declination, or by a certain congruence one to the other:

By their declination they are accounted Septentrional or Northern, as γ , δ , Π , \odot , Ω , \wp , are so accounted, because their declination is north from the Equinoctial: or Meridional or Southern, as α , μ , τ , \wp , α , \times , which decline southward.

In regard of their congruity one with another, γ , Ω , τ , are said to respect the Oriental Parts, because γ having no declination from the Equinox at the beginning doth chiefly respect the East, and Ω and τ being Signs of the same Triplicity, are attributed to the same Quarter, though one have great north declination, and the other south. So likewise δ denotes such parts as lie south, because of the same Trigon with \wp whose Tropical Point is the angle of greatest declination southward, yet the declination of δ is north, and in that respect called otherwise a northern Sign, and so much for the Signs.

The Planets (as was before noted) or wandering Stars are different from those termed Fixed, not onely in motion, but also in regard of their Essential Qualities; for the Fixed Stars are nearer the Matter of the Sun, whose Light also is Essentially in, and inherent to themselves, as the Light of the Sun is, and as the Fixed Stars are in Substance and Quality similar and analogical to the Sun, so are the Planets or wandering Stars to our Earth, which shine by that Light which they

they borrow from the Sun who is the Center both of their Light and Motion, differing no more from the Quality of our Earth, than the Mettalls of the said Earth, differ one from another.

The Number of the Planets are generally accounted seven, viz. Saturn ♄, Jupiter ♃, Mars ♂, Sol ☉, Venus ♀, Mercury ☿, Luna ☾.

These Planets have more powerfull Influence upon the Earth, and those things produced from, and contained in it, than the Fixed Stars, as well for this Reason, viz. that they Sympathize in Nature with her, as in respect of their propinquity to the Earth, which is the general and common Reason given for their more manifest Power and Operation, for although the Fixed Stars are of a vast and incomprehensible distance, insomuch as they are void of all sensible parallax, yet in regard of their excels in magnitude to that of the Planets (as by their visible appearances is manifest, who notwithstanding their distance appear as it were equal in magnitude) they must necessarily have as powerfull operation upon us, as the Planets have, did they sympathize with our Earth as the Planets do, whether it be by Magnetism, or an active influx in themselves; yet in regard it often happens, that the Planets are augmented or diminished in their operations by their propinquity to the Fixed Stars, it hath been observed that either by their colour or experienced virtues and operations, they have participated with the Planets in signification, though more weakly and in somewhat a different sense, so that by the variety of their Influence they are said to be of the nature of such a Planet, and sometimes of two Planets.

Not onely the difference of the Planets from those Stars called Fixed is to be considered, but also the difference among themselves, for according to their various Qualities, they produce various Effects; from whence some are termed, Fortunes and Benevolent, others

others Infortunes and Malevolent, and some Indifferent.

The Benevolent and Fortunate Planets are ♀ and ☿, and the good Aspects of the Sun.

The Infortunes and Malevolent are ☿ and ♀, and the bad Aspects of the Sun.

Those Planets that are of an indifferent nature, are ☿ and the Moon.

And this diversity of operation proceeds from the agreement or contrariety of nature and quality, to that of our Earth, even as the Vegetables of the Earth do accord with, or are contrary in nature one to the other; and so ☿ by reason of his excess in Cold, and ♀ in respect of his excess in Heat, are said to be infortunate to us, as exceeding in those principal qualities, so that generally they become destructive to nature in its actions and passions: and hence it is also that ♀ and ☿ are said to be benevolent and friendly to our natures, because they sympathize nearer with the nature of our Earth, and all its productions, not exceeding in any one quality by which nature becomes corrupted and destroyed.

☿ and the Moon are said to be indifferent as much for the reason aforesaid, as by reason of their affinity to, and frequent variation from other Planets, for as it is the property of ☿ to be subject to such mutation in his influence by reason of his access to, and coherence with the other Planets by body or Aspect.

So the Moon by reason of her propinquity to the Earth as its proper attendant (respecting the same for her proper center) doth more easily receive impression from, and convey the influence of all the other Planets to us, (by which they become more significant and apparent in their operations) though she in respect of her own essential quality, exceeds our Earth in humidity.

So the Sun, as he is the Center (more especially) of the motion of all the Planets, it is manifest that by his good or bad Aspects, he should be either very friendly to Nature in the one, and as prejudicial in the other.

These are some of the several Significations of the Planets as they are simply considered by themselves, but their influences are intended or remitted by their mixtures one with another, as also by their various Positions and Aspects.

As by their Position in Signs in which they are said to have most principal respect, as in their own proper Houses, and also in respect of their propinquity, or oblique and direct positions to Earth, being far more powerfull in influence or operation by so much as their influential beams are directly projected.

The most principal Aspects of the Planets among themselves, are these four, viz. Sextile ✱, Quartile ☐, Trine △, Opposition ♂.

The ☿ Conjunction, improperly called an Aspect, as it is the corporal union of their Beams, is of most power among other Configurations, and of the infortunate Planets is very malevolent, of the fortunate benevolent, of the fortunes with the infortunes, is good to the bad Planets, but evil to the good; and note that ♄ and ♀ make but 10 Conjunctions in one Trigon, continuing in the same near 200 Years, that is a Conjunction once in 20 Years, and compleats a revolution of all the Trigons once in a little less than 800 Years, which is very observable, there being but fewer revolutions compleated since the Creation, after every one of which, something notable has happened in the World.

Swallow 1686.

A plain and easie Table shewing the true Interest due upon any sum of money from five shillings to an hundred pounds, for a year or under, after the rate of six pounds in the hundred.

	1 Mon.			3 Mon.			6 Mon.			9 Mon.			A year.		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
5	0	0	1	0	0	3	0	1	3	0	1	2	0	3	2
10	0	0	2	0	1	3	0	3	2	0	5	0	0	7	0
15	0	0	3	0	2	2	0	5	1	0	8	2	0	10	2
1	0	1	0	0	3	2	0	7	0	0	10	2	1	2	1
2	0	2	1	0	7	0	1	2	1	1	9	1	2	4	2
3	0	3	2	0	10	2	1	9	1	2	7	3	3	6	3
4	0	6	3	1	2	1	3	4	2	3	6	3	4	9	0
5	0	4	0	1	6	0	3	0	0	4	6	0	6	0	0
6	0	7	0	1	9	2	3	7	0	5	4	2	7	2	1
7	0	8	1	2	1	0	4	2	1	6	3	1	8	4	2
8	0	9	2	2	4	2	4	9	1	7	3	1	9	6	3
9	0	10	3	2	8	1	5	4	2	8	0	3	10	9	0
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
10	0	1	0	0	3	0	0	6	0	0	9	0	0	12	0
20	0	2	0	0	6	0	0	12	0	0	18	0	1	4	0
30	0	3	0	0	9	0	0	18	0	1	7	0	1	10	0
40	0	4	0	0	12	0	1	4	0	1	16	0	2	8	0
50	0	5	0	0	15	0	1	10	0	2	5	0	3	0	0
60	0	6	0	0	18	0	1	16	0	2	14	0	3	12	0
70	0	7	0	1	1	0	2	2	0	3	3	0	4	4	0
80	0	8	0	1	4	0	2	8	0	3	12	0	4	16	0
90	0	9	0	1	7	0	2	14	0	4	1	0	5	8	0
100	0	10	0	1	10	0	3	0	0	4	10	0	6	0	0

Find the principal in the first Column, & in the other you have the interest due for one, three, six, nine, or twelve moneths.

Of

Of Weights and Measures.

Of Troy Weight.

24 Grains	}	24	1 Penny w.
20 Penny weight			1 Ounce.
12 Ounces			1 pou Troy

Apothecaries Weight.

20 Grains	}	make	1 Scruple.
3 Scruples			1 Dram.
8 Drams			1 Ounce.
12 Ounces			1 Pound.

Of *Averdupois* Weight, a Pound whereof is equal to 14 Ounces; 12 penny weight Troy; by which Weight is weighed any thing which beareth the name of Garbel in this kind of weight.

16 Drams	}	make	1 Ounce.
16 Ounces			1 Pound.

28 Pound	}	make	1 Quarter.
4 Quarters			1 H or 112
20 Hundreds			1 Tun.

Of Liquid Measure.

2 Pints	}	make	1 Quart.
2 Quarts			1 Pottle.
2 Pottles			1 Gallon
8 Gallons			1 Firkin of Ale Sope, Herrings.
9 Gallons	}	make	1 Firkin of Beer.
10 Gall. $\frac{1}{2}$			1 Firkin of Salmon or Eels.
2 Firkins			1 Kilderkin
2 Kilderkins			1 Barrel.
42 Gallons	}	make	1 Tierce of Wine.
63 Gallons			1 Hogshead
2 Hogsheads			1 pipe, Butt.

Dry Measure.

2 Gallons	}	make	1 Peck.
4 Pecks			1 Bushel land measure.
5 Pecks			1 Bushel wat. measure.
8 Bushels			1 Quarter.
4 Quarters	}	make	1 Childer.
5 Quarters			1 Wey

Long Measure.

3 Barly Corns	}	make	1 Inch.
12 Inches			1 foot.
3 feet			1 Yard.
3 feet 9 Inch.			1 Ell.
6 feet	}	make	1 fathom.
5 yards and $\frac{1}{2}$			1 Pole.
40 Poles			1 furlong.
8 furlongs			1 Eng. mile

Land Measure.

1 pole in breadth and 40 in length make 2 Rood of Land.
4 Roods make an Acre, which contains 160 square pole.

Cloth Measure.

4 Nails	}	make	1 Quarter.
4 Quarters			1 Yard.

A Table shewing how many Inches in Length makes one Foot of Timber, according to the Compaſs of any Round Piece of Timber.

The Compaſs of the Tree in Inches.

Com.	In.	parts.	Com.	In.	parts.	Com.	In.	parts.
10	217	15	40	13	572	70	4	432
11	179	46	41	12	916	71	4	388
12	150	86	42	12	310	72	4	198
13	128	49	43	11	744	73	4	75
14	110	79	44	11	211	74	3	965
15	94	312	45	10	723	75	3	861
16	84	822	46	10	262	76	3	760
17	75	137	47	9	830	77	3	663
18	67	20	48	9	425	78	3	569
19	60	151	49	9	44	79	3	479
20	54	286	50	8	686	80	3	393
21	49	1228	51	8	349	81	3	310
22	44	865	52	8	30	82	3	230
23	40	904	53	7	730	83	3	152
24	37	690	54	7	447	84	3	78
25	34	743	55	7	178	85	3	6
26	32	122	56	6	924	86	2	936
27	29	787	57	6	684	87	2	869
28	27	697	58	6	455	88	2	804
29	25	820	59	6	238	89	2	742
30	24	127	60	6	30	90	2	681
31	22	596	61	5	836	91	2	622
32	21	206	62	5	649	92	2	566
33	19	936	63	5	471	93	2	511
34	18	784	64	5	301	94	2	458
35	17	736	65	5	140	95	2	406
36	16	755	66	4	985	96	2	356
37	15	862	67	4	837	97	2	307
38	15	38	68	4	696	98	2	261
39	14	276	69	4	561	99	2	216
						100	2	171

The use of the Table.

First girt the Piece about, then look the length of that Girt under the title Com. and against it is the length of a Foot solid in Inches and parts of Inches.

Example.

Suppose a piece of Timber be 80 Inches about, then look 80 under the title Com. and against it in the next Column toward the right hand is 3 Inches and 393 decimal parts of an Inch, (that is 393 thousand parts, supposing the Inch to be divided into 1000 parts) for the length of a Foot.

For Square Timber.

Divide always 1728. (the Cubick inches in a foot solid) by the Content at the end, and the Quotient shews the length of a foot solid in Inches.

Example.

Let a piece of Timber be 12 Inches broad and 10 Inches deep at the end, and then the Content will be 120 Inches, which dividing 1728 the Quotient is 14 Inches, and $\frac{48}{100}$ parts for the length of a foot solid.

For Boards.

Divide always 144 (the Inches in a foot square) by the breadth, and the Quotient shews the length of a foot square in Inches.

Example.

If a board be 16 Inches broad, then 144 divided by 16 the Quotient is 9 Inches for the length of a foot according to that breadth.

For Circles.

If the Circumference be given, multiply it by it self, and then by 7, the last product divide by 88, and the Quotient shews the Content: if the Diameter be onely given, multiply it by it self, and then by 11 the last product divide by 14 and the Quotient shews the Content.

A Table of the hour and minute of Sun-rising every second day.

Days	Januar.	Februa.	March	April	May	June
	ho. mi.	ho. mi.	ho. mi.	ho. mi.	ho. m.	ho. mi.
2	8 4	7 15	6 16	5 14	4 21	3 46
4	8 1	7 11	6 12	5 10	4 17	3 45
6	7 58	7 7	6 8	5 6	4 14	3 44
8	7 56	7 3	6 4	5 2	4 11	3 43
10	7 53	6 57	6 0	4 58	4 7	3 43
12	7 51	6 53	5 56	4 54	4 5	3 43
14	7 48	6 50	5 52	4 50	4 2	3 43
16	7 45	6 46	5 48	4 46	4 0	3 44
18	7 43	6 42	5 44	4 43	3 58	3 45
20	7 40	6 38	5 40	4 39	3 56	3 46
22	7 37	6 34	5 36	4 35	3 54	3 47
24	7 33	6 30	5 32	4 32	3 52	3 48
26	7 29	6 26	5 29	4 29	3 50	3 49
28	7 25	6 22	5 25	4 25	3 48	3 50
30	7 21	6 18	5 21	4 22	3 47	3 52

Days	July	August	Septem.	Octob.	Nov.	Decem.
	ho. mi.	ho. mi.	ho. mi.	ho. mi.	ho. m.	ho. mi.
2	3 54	4 39	5 39	6 41	7 37	8 15
4	3 56	4 43	5 42	6 45	7 40	8 15
6	3 58	4 46	5 46	6 49	7 44	8 16
8	4 0	4 50	5 50	6 52	7 47	8 17
10	4 3	4 54	5 54	6 56	7 51	8 17
12	4 6	4 58	5 58	7 0	7 54	8 17
14	4 8	5 2	6 2	7 4	7 57	8 17
16	4 11	5 6	6 6	7 8	7 59	8 16
18	4 15	5 10	6 11	7 12	8 1	8 15
20	4 18	5 14	6 15	7 15	8 3	8 15
22	4 21	5 18	6 20	7 19	8 5	8 14
24	4 24	5 21	6 24	7 22	8 7	8 12
26	4 27	5 25	6 28	7 25	8 9	8 10
28	4 30	5 29	6 32	7 29	8 11	8 9
30	4 34	5 32	6 36	7 32	8 13	8 7

Seek the day on the side; and right against it, in every month, you have the hour and minute of Sun-rising.
 Look how many minutes the Sun rises after 3, 4, 5, 6, 7, 8.
 So many he sets before 9, 8, 7, 6, 5, 4.

A Table of Annuities and Reversions.

What 1 pound to be paid any number of years hence, under 31, is worth in ready money.

What 1^{lb} Annuity to continue any time under 31 years is worth in ready money at 6 per cent.

What 1 pound will amount to at any time under 21 year reckoning Interest upon Interest.

	sh.	d.	q.	lb.	sh.	d.	q.	lb.	sh.	d.	q.
1	18	10	2	0	18	10	2	1	1	2	2
2	17	9	2	1	16	8	0	1	2	5	2
3	16	9	2	2	13	5	2	1	3	9	3
4	15	10	0	3	9	3	2	1	5	3	0
5	14	11	1	4	4	3	0	1	6	9	0
6	14	1	1	4	13	4	1	1	8	4	1
7	13	3	2	5	11	7	3	1	10	0	3
8	12	6	2	6	4	2	1	1	11	10	2
9	11	10	0	6	16	0	1	1	13	9	2
10	11	2	0	7	7	2	1	1	15	9	3
11	10	6	2	7	17	8	3	1	17	11	2
12	9	11	1	8	7	8	0	2	0	3	0
13	9	4	2	8	17	0	2	2	2	7	3
14	8	10	0	9	5	10	3	2	5	2	2
15	8	4	0	9	14	3	0	2	7	11	1
16	7	10	2	10	2	1	2	2	10	9	2
17	7	5	0	10	9	6	2	2	13	10	2
18	7	0	0	11	16	6	2	3	17	1	0
19	6	7	1	11	3	2	0	3	0	6	0
20	6	2	3	11	9	4	3	3	4	1	3
21	5	10	2	11	15	3	1	3	7	11	3
22	5	6	2	12	0	10	0	By this Table you may readily find the increase of any other sum for such a number of years: for if it come to so much then such suppose 5 ^{lb} will come to 5 times as much &c.			
23	5	2	3	12	6	0	3				
24	4	11	1	12	17	0	0				
25	4	7	2	12	15	8	0				
26	4	4	3	13	0	0	3				
27	4	1	3	13	4	2	2				
28	3	11	0	13	8	1	3				
29	3	9	1	13	11	9	2				
30	3	5	3	13	15	3	2				

The

The use of the Tables.

The first Table shewing the decrease of one Pound yearly at 6 per cent. may be used in buying Reversions, &c. As suppose a parcel of Land or House or the like, whose fee simple or real worth is 200^{lb}, and it be Mortgaged or Leased out for 20 years, then what is the Reversion thereof after that 20 years worth in ready money? For Answer, I look against 20 years and find that the Reversion of one pound after 20 years is worth 6^{sh} 2^d 3^q, then if 1^{lb} be worth 6^{sh} 2^d 3^q, 200^{lb} will be worth 200 times as much, which will be 62^{lb} 5^{sh} 10^d for the value of the Reversion required.

The second Table may be used in buying of Leases, &c. as suppose I am to buy a Lease of 10^{lb} per annum, for 21 years, what ready money may I give at the rate of 6^{lb} per cent. per ann. for answer I look against 21 years and find that 1^{lb} annuity to continue 21 years is worth in ready money 11^{lb} 15^{sh} 3^d 1^q, then I say if 1^{lb} annuity for 21 years be worth 11^{lb} 15^{sh} 3^d 1^q, then 10^{lb} annuity for the same time will be worth 10 times as much, which will be 117^{lb} 12^{sh} 8^d 2^q, for the value of the Lease required.

The third Table may be used in putting out money for a certain time at 6^{lb} per cent. per ann. as suppose 20^{lb} be let out for 7 years, what will it amount to in that time reckoning Interest upon Interest? For Answer I look against 7 years, and find that 1^{lb} will amount to in that time 1^{lb} 10^{sh} 0^d 3^q, then I say 20^{lb} will amount to 20 times as much, which will be 30^{lb} 1^{sh} 3^d.

The use of the following Table is plain and easie, for suppose I am to find Easter this present year 1685. then having found the Golden Number 14, and Dominical Letter D at the bottom of the Table, I look under the Dominical Letter D at the top, and right against the Golden Number 14 at the left hand, and in the Common angle of meeting I find April 19. for Easter Day.

Small 1686.

A Table shewing how to find Easter for ever
by the help of the Golden Number
and Dominical Letter.

G.N.	A	B	C	D	E	F	G
i	Apr. 9	10	11	12	6	7	8
ii	Mar. 16	27	28	29	30	31	apr. 1
iii	Apr. 16	17	18	19	20	14	15
iv	Apr. 9	3	4	5	6	7	8
v	Mar. 26	27	28	29	23	24	25
vi	Apr. 16	17	11	12	13	14	15
vii	Apr. 2	3	4	5	6	mar. 31	apr. 1
viii	Apr. 23	24	25	19	20	21	22
ix	Apr. 9	10	11	12	13	14	8
x	Apr. 2	3	mar. 28	29	30	31	apr. 1
xi	Apr. 16	17	18	19	20	21	22
xii	Apr. 9	10	11	5	6	7	8
xiii	Mar. 26	27	28	29	30	31	25
xiv	Apr. 16	17	18	19	13	14	15
xv	Apr. 2	3	4	5	6	7	8
xvi	Mar. 26	27	28	22	23	24	25
xvii	Apr. 16	20	11	12	13	14	15
xviii	Apr. 2	3	4	5	mar. 30	31	apr. 1
xix	Apr. 23	24	18	19	20	21	22

Sc2. of our Lord	1684	1685	1686	1687	1688	1689	1690
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G.N.	13	14	15	16	17	18	19
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D.Le.	FE	D	C	B	AG	F	E
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The

The Names of the principal Fairs in England, they have heretofore been set forth by others, and are now Corrected and continued for the common good.

January.

The 5 day at Hicetford in Lancashire, the 6 day at Salisbury, Tuesday after at Melton-Mowbray, the Thursday after at Banbury: the third Tuesday in January at Potton: the 25 at Gravesend, Bristol, Churchinford, Northallerton in Yorkshire every Wednesday from Christmas till June.

February.

The 1 day at Bromley in Lancashire, the 2 at Reading in Barkshire, at Maidston, Bicklesworth, Bicklesfield, Bath Lyn, Bugworth: the 6 day at Stafford for 6 days: the 14 at Oundle, Feversham: 14 at Henley upon Thames, Baldock: On Ashwednesday at Royston, Dunstable, Eaton, Tamworth, Tunbridg, Lichfield, Exeter, Ciceter. The first Thursday in Lent at Banbury: the 26 at Stanford in Horse Fair.

March.

The 3 day at Bromel-brakes in Norfolk, 4 at Bedford, at Oakham: 12 at Alsome in Norfolk, Sudbury, Wooburn, Stanford, at Wye: 13 at Bodwin in Cornwall: 10 at Durham, Alesbury: Munday before our Lady day at Kendal, at Wisbich, 25 at Huntington, Northampton, Maldon, Ashwel in Hartfordshire, Newcastle, Oney, S. Albans: Midlent Saturday at Saffron-walden: Palmfunday-eve at Wisbich, Worcester, Pomfret, on Goodfriday at Norwich, the Tuesday before Easter at Potton.

April.

Easter Munday at Oney in Bedfordshire, Gainsborough. Easter Tuesday at Dainty in Northamptonsh. Godmanchester, Schoie in Norfolk, S. Edmunds-bury. On Wednesday at Wellingborough in Northamptonsh. On Friday

Swallow 1686.

In the same week at Darby. On Saturday at Bicklefworth: a day at Hitchen, at Rochford, Northfleet: 5 at Wallingford: 7 at Derby, 9 at Billingsworth, Bicklefworth: the 22 at Stabford, 23 at Ipswich, Harbin in Norfolk, Northampton, Sapfar in Hartfordshire, Charing, Hinningham, Tamworth, Bury in Lancashire. S' Pombs in Cornwall, Amphill, Chichester, Engfield, Gilsford, Bishops-Hatfield: the 25 at Buckingham, at Bourn in Lincoln, at Colebrook, Dunmow in Essex, Darby, Oakham in Rutlandshire: the 29 at Tenderden in Kent, Cleet, 30 at Beverly a week together.

May.

The 1 day at Swaffam, Haveril in Essex, Laytonbuzzard in Huntingdonsh. Rippon in Yorks. Reading, Maidstone, Chelmsford, Leicester, Litchfield, Lexfield in Suffolk, Stow, Stantled, Tuxford in the Clay, the 3 day at Elston in Bedfordsh, Noneaton in Warwicksh. Thetford in Norfolk, Waltham Abby, Hinningham, Rochdale, Branyard, the 6 at Almesbury, at Ashford, 7 at Newton in Lancashire, Beverly, Oxford. Bath: the 8 at Maidstone: the 13 at Rochester, Dunstable, Magfield in Suffolk. On Rogation Munday at Reach. On Ascension day at Thaxted, Beverly, Rippon, Sudminster, Bishopstratford, S. Neots, Wickham in Lancashire, Middle-wich in Cheshire, Chappel-Erich in Darbish. On Whitsun-even at Skipton in Craven. On Whitsun-Munday at S. Ives, Rygate in Surry, Bicklefworth, Bradford, Agmunsham in Buckinghamsh. On Whitsun-Tuesday at Newmarket. On Wednesday at Royston. Thursday at Owndle in Northampton, 26 at Lenham, 29 at Crainbrook.

June.

Trinity-even at Rowel, Kendal. On Corpus Christiday at Banbury, Bishopstratford, S. Neots, Coventry, Newbury The 3 at Alesbury: 9 at Maidstone. 11 at Breme in Norfolk, Bardfield in Essex. 17 at Hadcock, 23 at S. Albans, Deerham in Norfolk, Shrewsbury, 24 at Halsan in Suffolk, Barnwel by Cambridge, Bedford, Colchester, Hartford,

Swallow 1686.

Hartford, Leicester, Rufford, Reading, Windsor, Hallifax, York, Beverly, Hallingden, 26 at Bristol, Darby, 27 at Burton on Trent, Folskone, 28 at S. Pombs in Cornw., 29 at Peterborough, Ashwel, Sudbury, Stebbing in Essex, Benington in Hertfordshire.

July.

The first Tuesday at Potton. The 1, 2, 3 days at Conkstone in Cheshire, 7 at Royston, Burntwood. The Monday after at Fodringham, at Canterbury: the 11 at Partney, 17 at Stevenage: 20 at Uxbridge, Coolidge, Woodstock, the 22 at Ickleton, Bicklefworth, Norwich, Colchester, Newark upon Trent; 25 at Audley-end by Walden, Reading, Baldock, Darby, Dover, Erith, Ipswich, Stamford.

August.

The first day at Bedford, S. Neots, Dunstable, Feverham, Wisbich, Bicklefworth, Thaxted: the 6 at Peterborough: the 10 at Blackmore, Harply in Norfolk, S. Ives, Bedford, Banbury, Farnham, Brainford, Oundle: the 15 at Cambridge, Huntingdon, Dunmow, Luton, Northampton: the 24 at London, Sudbury, Norwich, Oxford, Northallerton, Dover, Beggers-bush, Burton, the 28 at Ashford, Daintry: the 29 at Halson in Suffolk, Harlow-Bush in Essex, Watford.

September.

The first day at S. Giles in the Bush. On Thursday and Friday before the 8 day at Sandback in Cheshire. 9, 10 at Woodbury-hill in Dorsetshire, 7 at Ware, 8 at Eington, Bury in Lancashire, Partney, Wakefield, Northampton, sturbridge fair begins: the 11 at Wolspit in Suff. 14 at Rippon, Waltham-Abby, Chesterfield in Darbshire, Richmond: the 21 at Marlborough, Bedford, Baldock, S. Edmundsbury, Holden in Holderness, Braintry, Brackly-Maiden, Malden, Mildnal: the 29 at S. Ives, Basingstoke, Marketdeeping, Shelford in Bedfordsh. Bishopstratford, Malden, Stow in Lincolnsh. S. Albans, Canterbury, Leicester, Newbury, Westchester, Weymer for 7 days: Thursday after at Banbury.

October.

Swallow 1686.

October.

The 1 day at Salisbury, the 6 at Havent in Hampsh. Maidstone, Coolidge, Gayworth by Lyn. S. Faiths by Norwich, the 8 at Bishopstrow, Harborough, 9 Gainsborough, the 13 at Windsor, Colchester, Gravesend, Hitchin, Royton: the Tuesday before S. Luke at Potton: 18 at Ely, Bishop Hatfield, Barnet, Banbury, Thirst, Burton on Trent, Wellinborough: the 21 at Saffron Walden, Coventry: the 23 at Bickelworth, 28 at Newmarket, Hartford, Oxford, Dits, Wakefield, Stamford, Richdale in Lancashire.

November.

The 1 day at Chelmsford, 2 at Epping, Kingston on Thames, Padamhaston in Suffolk, 6 at Newport pond, Bedford, Harford, 11 at Lodden in Norfolk, Lenton in Nottinghamshire, Hempton, Fockingham, Bridgestock, Marlborough: the 17 at Spalding in Lincolnsh. Lincoln, Harlow, Hide, Northampton: the 19 at Horsham in Kent: the 20 at S. Edmundsbury, Ingerston in Essex, Heath, the 23 at Sandwich, the 30 at Baldock, Bareford, Kolingborough, Maldenhead, Warrington, Rochester, Wakefield, York.

December.

The first day at Turbury: the 5 at Pluckley: the 9 at S. Neots, at Woodstock, Exeter, Spalding, Norwich in Cheshire, Seven-oak in Kent, Arundel, Grantham: the 7 at Sandhurst, the 8 at Northampton, Clitheral in Lancashire, Huntingdon, Leicester, at Malpas in Cheshire: the 19 at Canterbury, Salisbury.

There is lately published *Thesaurus Linguae Sanctae Reseratum*, &c. being a Concordantia Hebrew Lexicon, or Dictionary; in which all the Hebrew Lexicons are succinctly comprehended, and the whole Hebrew Concordance of every Word of the Hebrew Bible grammatically resolved, &c.

A Full, Large, and General Phrase-Book; Comprehending, whatsoever is Necessary, and most Usefull, in all other Phraseological-Books, (hitherto, here, published;) and Methodically Digested; for the more speedy and Prosperous Progress of Students in their Humanity Studies. Both Published by William Robertson, A. M. and sold at the Bible on Ludgate-hill, LONDON.

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